2

3

stubs, and diodes.

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AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the above-referenced application:

1 1. (Original) An apparatus comprising: 2 a first substrate; an optoelectronic device formed on the first substrate, the optoelectronic 3 4 device having a frequency response; and a matching circuit formed on the first substrate and coupled to the 5 6 optoelectronic device to change its frequency response. 2. An apparatus as in claim 1, further comprising: (Original) 1 2 a driver circuit that communicates with and controls the optoelectronic device. 3 3. (Original) An apparatus as in claim 2, further comprising: 1 a second substrate, wherein the driver circuit is formed on the second 2 3 substrate. An apparatus as in claim 3, wherein the matching circuit 4. (Original) 1 is selected to match the frequency response of the optoelectronic device to the driver 2 circuit for optimal performance. 3 (Original) An apparatus as in claim 4, wherein the optoelectronic 1 5. device is a Vertical Cavity Surface Emitting Laser (VCSEL). 6. (Original) An apparatus as in claim 4, wherein the optoelectronic 1 device is an edge-emitting diode. 2 7. An apparatus as in claim 4, wherein the matching circuit 1 (Original)

includes a passive device from the group consisting of inductors, capacitors, resistors,

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- 1 8. (Original) An apparatus as in claim 4, wherein the optoelectronic
- 2 device is flip-chip mounted to the auxiliary circuit.
- 9. (Currently amended) An apparatus as in claim 1 2, further comprising:
- 2 wherein the driver comprises an amplifier that communicates with and amplifies a
- 3 signal from the optoelectronic device.
- 1 10. (Original) An apparatus as in claim 9, further comprising:
- a second substrate, wherein the amplifier is formed on the second
- 3 substrate.
- 1 11. (Original) An apparatus as in claim 10, wherein the matching
- 2 circuit is selected to match the frequency response of the optoelectronic device to the
- 3 amplifier for optimal performance.
- 1 12. (Original) An apparatus as in claim 11, wherein the matching
- 2 circuit includes a passive device from the group consisting of inductors, capacitors,
- 3 resistors, stubs, and diodes.
- 1 13. (Original) An apparatus as in claim 12, wherein the optoelectronic
- 2 device is a photosensor.
- 1 14. (Original) An apparatus as in claim 13, wherein the photosensor is
- 2 flip-chip mounted to the amplifier.